

Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_



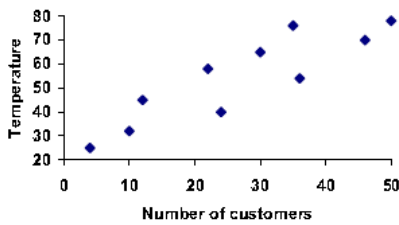
## Scatterplots Study Guide

*Directions:* Read all directions clearly. You may show work on a separate sheet of paper. Write your answers on **THIS** paper. Double check all answers.

**CIRCLE** whether the graph/scenario represents a **POSITIVE**, **NEGATIVE**, or **NO CORRELATION**. Then **EXPLAIN** your answer.

1)

Cooly Ice Cream Shop



Positive

Negative

None

Explain:

2)

Number of school assignments due and hours of sleep you get

Positive

Negative

None

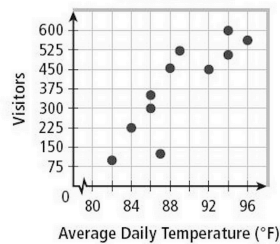
Explain:

**Answer the following in a COMPLETE sentence (1 point each)**

3) In your own **words**, explain what a scatterplot is used for.

4)

Beach Visitors



Draw the line of best fit.

Then, use your line of best fit to estimate how many visitors there would be at 90°F.

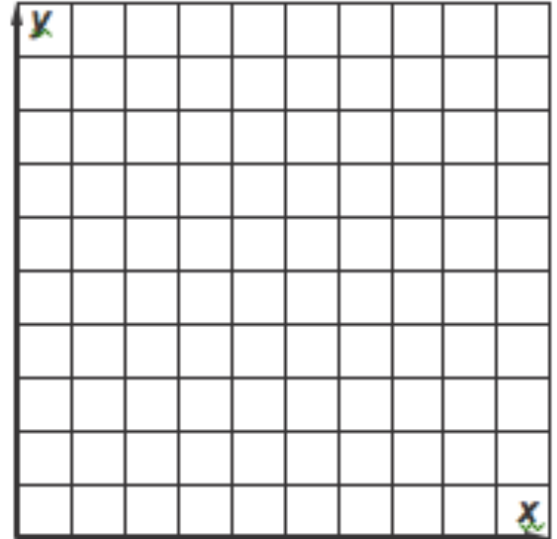
5) Use the table to answer the questions in part a-c (1 point for each part)

Miles Run	1	2	3	4	5
Time	8	17	26	30	39

a) Plot a scatter plot of the following table. *Make sure you label your axes, create a reasonable scale, and plot the data correctly!*

b) Draw a line of best fit.

c) Determine the symbolic representation in slope-intercept form of your line of best fit.



d) What does your slope mean in context? What does your y-intercept mean in context?

e) Use your line of best fit equation to predict approximately how much time it will take to run a marathon (26 miles).